

DEVICE AND METHOD FOR DETECTING AND TREATING CHEMICAL AND BIO- LOGICAL AGENTS

Abstract

A device and method capable of sensing the presence of biochemical agents, and preferably also capable of delivering precise amounts of one or more antidotes to treat a victim exposed to the agents.

The device includes a freestanding tube portion having an internal passage containing a substance selective to a chemical or biological agent so that matter accumulates within the freestanding tube portion when a fluid drawn through the tube portion contains the agent. When vibrated at resonance, the resonant frequency of the tube portion is indicative of the accumulation of matter and thereby the presence of the agent to which the substance is selective. The device then preferably delivers precise amounts of one or more appropriate antidotes to treat the victim. The device is a sufficiently small and lightweight unit to permit being carried by an individual.